

Cloisite 15A

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# Attachment 5

**CLOISITE® 15A****TYPICAL PHYSICAL PROPERTIES BULLETIN****Description:**

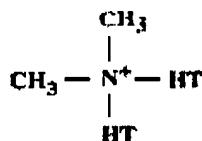
Cloisite® 15A is a natural montmorillonite modified with a quaternary ammonium salt.

**Designed Used:**

Cloisite® 15A is an additive for plastics to improve various plastic physical properties, such as reinforcement, HDT, CLTE and barrier.

**Typical Properties:**

Treatment/Properties:	Organic Modifier (1)	Modifier Concentration	% Moisture	% Weight Loss on Ignition
Cloisite® 15A	2M2HT	125 meq/100g clay	< 2%	43%



Where HT is Hydrogenated Tallow (~65% C18; ~30% C16; ~5% C14)  
Anion: Chloride

(1) 2M2HT: dimethyl, dihydrogenatedtallow, quaternary ammonium

Typical Dry Particle Sizes: (microns, by volume)

10% less than:	50% less than:	90% less than:
2 $\mu$	6 $\mu$	13 $\mu$

Color: Off White

Density:

Loose Bulk, lbs/ft <sup>3</sup>	Packed Bulk, lbs/ft <sup>3</sup>	Specific Gravity, g/cc
10.79	18.64	1.66

X Ray Results:  $d_{001} = 31.5\text{\AA}$

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